REMARKS

Pending Claims

Claims 1-10 are pending in this application. Claims 1, 4, 6, 9 and 10 have been amended.

Claim Rejections Under 35 U.S.C. §102 and 103(a)

Claims 15 and 7-10 stand rejected under 35 U.S.C. §102(b) as being anticipated by Markert et al. (U.S. Pub. No. 2003/0114097). Claim 4 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Markert et al. Claim 6 stands rejected under 35 U.S.C. §103(a) as being unpatentable over Markert et al. and further in view of Holms (U.S. Patent No. 5,350,334).

For the reasons set forth hereafter, it is submitted that the amended claims are patentable.

Summary of Telephone Interview

The courtesy of the Examiner in conducting a telephone interview with Applicants' undersigned attorney on February 17, 2010 is greatly appreciated. The substance of the interview is set forth in this summary as well as in the remarks which follow.

During the interview the differences between Applicants' invention and the invention disclosed in the Markert et al. '097 reference were discussed in detail.

Applicants pointed out that in the Markert reference, the element referred to by the

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Examiner as the threading element has a front edge which is straight across a horizontal transport plane and is orthogonal thereto and wherein the threading element is bent upwardly out of the horizontal transport plane of the meat whereas in Applicants' invention the threading element is mounted forwardly of the countersurface in a horizontal transport plane of the meat with the threading element being bent laterally from the counter-surface in the horizontal transport plane at a horizontal angle with respect to the counter-surface.

Applicants' undersigned attorney agreed to amend claims 1 and 10 to define the threading element as being bent laterally from the counter-surface in the horizontal transport plane at a horizontal angle with respect to the counter-surface.

The Examiner tentatively agreed that this Amendment would distinguish over the cited prior art but indicated that he wanted to give the matter further consideration before making a final decision.

Applicants further discussed amending claim 6 to define the unit consisting of the counter-surface and the threading element being constructed as swivellable from a position outside of the transport element to a position over the transport element, independently with respect to the transport element. Applicants pointed out that this Amendment was fully supported at page 6 lines 18-26.

Patentability of the Claims

Independent claims 1 and 10 have been amended to further define that the threading element is mounted forwardly of the counter-surface in a horizontal transport plane of the meat with the threading element being bent laterally from the counter-surface in the horizontal transport plane at a horizontal angle with respect to the counter-surface. This Amendment further distinguishes over the newly cited Markert reference wherein the element referred to by the Examiner as the threading element has a front edge which is straight across a horizontal transport plane and is orthogonal thereto and wherein the threading element is bent upwardly out of the horizontal transport plane of the meat. This difference will be discussed in greater detail hereafter.

Claim 6 has been amended to further define the unit of the counter-surface and the threading element as being swivellable from a position outside of the transport element to a position over the transport element.

Applicants' invention as now claimed is directed to an apparatus for the automatic processing of meat such as fish and includes a transport element 11 such as a conveyer for transporting the meat and a cutting element 12 such as a circular blade for cutting or trimming the meat. A counter-surface 13 is shown in Figs. 1, 5 and 7 having a slit 26 therein which is provided under the circular blade A control or regulating apparatus 40 is provided which is functionally connected with the cutting element. Significantly, a threading element 14 is mounted forwardly of the countersurface 13 in a horizontal transport plane E₁ of the meat, with the threading element

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being bent laterally from the counter-surface in the horizontal plane at a horizontal angle with respect to the counter-surface whereby an outer end of the threading element extends at least partially across and in the horizontal transport plane E₁ to at least partially lift one side of the meat prior to the meat reaching the counter-surface.

As clearly shown in Figs. 5 and 7, the threading element 14 is angled at a preferred angle of approximately 30 degrees to extend at least laterally part of the way across the surface of the horizontal transport element 11 so that the leading edge of the threading element 14 initially contacts one side of the meat being transported along the transport element whereby only a part of the meat is initially lifted off from the transport element. This prevents blunt or frontal impacting of the entire piece of meat on front of the threading device all at once which causes pieces of meat to accumulate and interfere with proper cutting. The remainder of the meat is then lifted off the transport element by the threading element 14 as the meat continues to be moved in the direction of transport. In this fashion, the meat is initially lifted prior to reaching the counter-surface 13 whereby the cutting element 12 is easily enabled to cut or trim the meat. A deflector element 30 is arranged behind the counter-surface 13 in the direction of transport whereby material such as fat which is cut during the cutting process is removed from the transport element. The unit consisting of the counter-surface and the threading element preferable is constructed as an integral unit so as to be swivellable from a position outside of the transport element to a position over the transport element, independently with respect to the apparatus.

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Claim 10 is patterned after claim 1 but is directed to the method for the automated processing of meat using the threading element.

Applicants' invention, as described above, is not anticipated or otherwise rendered unpatentable by the Markert reference.

With respect to the Markert et al. '097 reference, this reference shows a blade assembly 14 having a body 30 with at least one notch 32 that forms a cutting surface 34 for separating chicken thighs 16 into spare ribs 18 and meat patties 20. The blade assembly includes two downwardly extending ramps 36 positioned at the sides of a channel 24 in front of a cutting surface 34. The front edges of the ramps 36, however, extend orthogonally or perpendicularly to the direction of transport indicated by the arrow in Fig. 1. The ramps 36 are angled upwardly from the horizontal plane of the conveyor 12 to the blade body 30 so that the angle is not in the horizontal plane of the conveyor 12 which moves forwardly in the direction of the arrow shown in Fig. 1. With this type of structure, the poultry parts to be processed are frontally pushed or slid onto the ramps 36. Therefore, the meat being processed comes up against the ramp all at once. This leads to the problem of the meat accumulating in front of the ramps and causes interruption of the processing of the meat.

By contrast, in Applicants' invention, the threading element 14 is bent or angled laterally from the counter-surface in the horizontal transport plane E_1 at a horizontal angle with respect to the counter surface whereby an outer end of the threading element extends at least partially across and in the transport plane so that

it initially lifts only one side of the meat prior to the meat reaching the counter

surface. In this way, accumulation of the pieces of meat at the front of the threading

element is avoided.

Claim 6 has been amended to further define the counter-surface and the

threading element unit as being swivellable from a position outside of the transport

element to a position over the transport element. This Amendment is fully supported

by the specification at page 6, lines 18-26. This further distinguishes over the Holms

'334 patent which the Examiner cited as disclosing a threading element 28-32 which

is swivellable with respect to the rest of the apparatus. The elements 28-32,

however, do not swivel from a position outside of a transport element to position over

the transport element but only pivot upwardly and downwardly. Accordingly, claim 6

and the claims dependent therefrom are patentable for this reason as well as for the

reasons advanced with respect to claim 1.

Method claim 10 has been amended in a manner similar to apparatus claim 1

and is submitted to be patentable for the same reasons as advanced with respect to

claim 1.

For the foregoing reasons, it is submitted that claims 1-10 are patentable.

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Conclusion

In view of the foregoing amendments and remarks, the Applicants request

reconsideration of the rejection and allowance of the claims.

Please charge any shortage in fees due in connection with the filing of this

paper, including extension of time fees, or credit any overpayment, to the deposit

account of Mattingly & Malur, P.C., Deposit Account No. 50-1417 (referencing

attorney docket no. WK-5391).

Respectfully submitted,

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